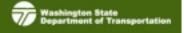
I-405 Improvement Project

### I-405 - A Project's Journey

Transportation 101 February 19, 2004



### State Transportation Where have we been - a little history

- R-49 Passed 1998
- I-695 Passed 1999
- Governor's Blue Ribbon Commission-2000
- Four Legislative Sessions 2001
- R-51 Failed 2002
- Nickel Funding Package 2003



### I-405 Corridor: Growing and on the Move

	<u>1997</u>	<u>2020</u>
Population	564,391	764,660
Employment	408,635	552,724

- 30 mile corridor
- One of the most congested freeways in state
  - 56% growth in daily trips (95-2020)
  - 10-12 hours of congestion a day
- A critical to trade and state economy
  - Washington #1 trade dependent state
- Essential to Growth Management Program
  - Investments support smart growth strategies





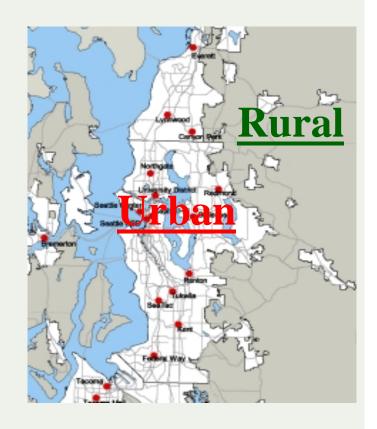
### Regional Context





### Puget Sound Region has Established Growth Management

- Reduce sprawl
- Ensure that growth occurs in urban growth boundary
- Preserve rural lands,
- Conserve natural resources, and
- Enable efficient provision of services and facilities.

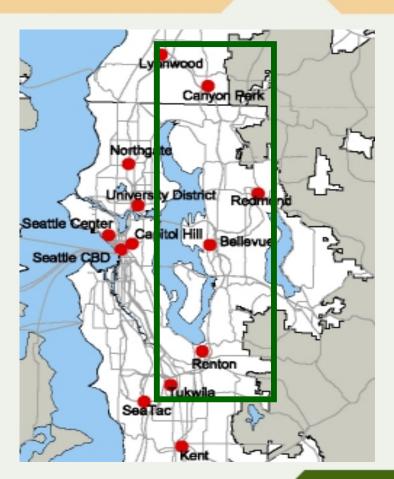




### I-405 Located within Urban Growth Boundary

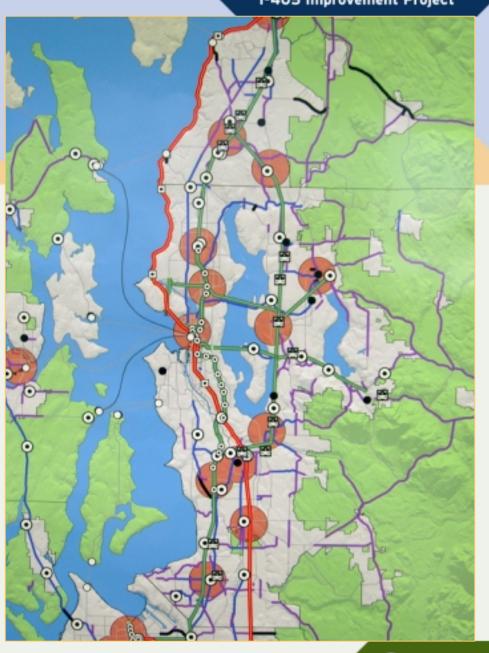
#### **I-405 Provides Connectivity to:**

- 2 Counties
- 6 Urban Centers
- 9 Suburban Communities
- 14 Business and Housing Activity Centers



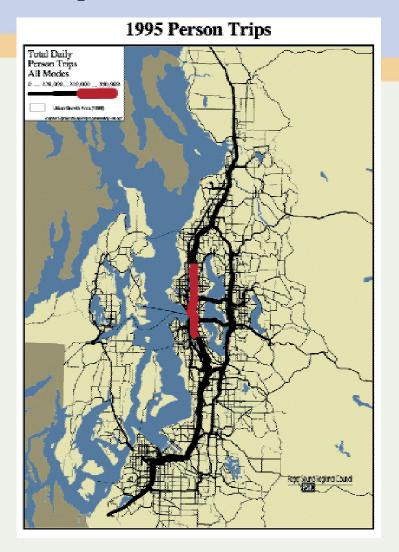


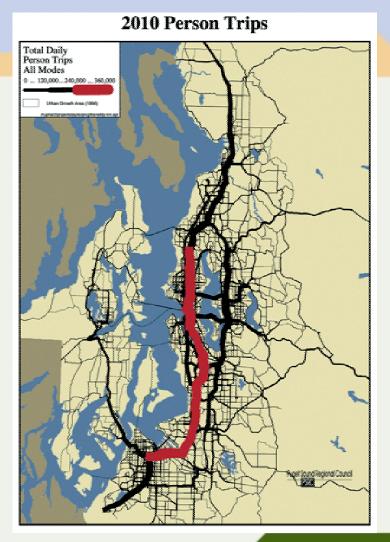
# Planned Land Use & Regional Centers





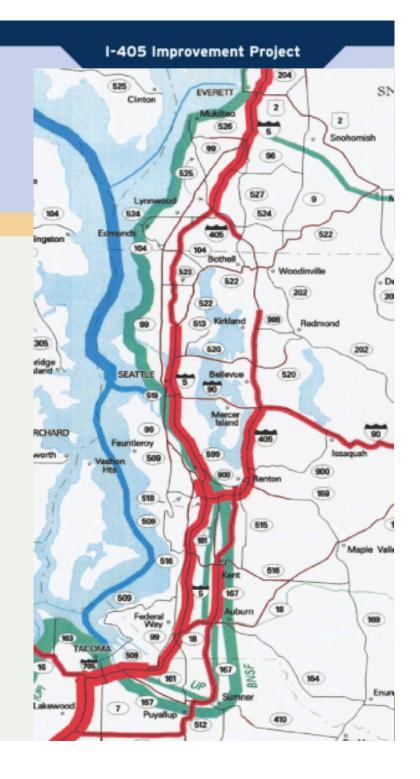
### People Moved in the Region







# Freight Moved in the Region



### People Using I-405

I-405 used by travelers throughout the Region

Combination of local and through traffic

Complement to I-5
 for long distance
 trips

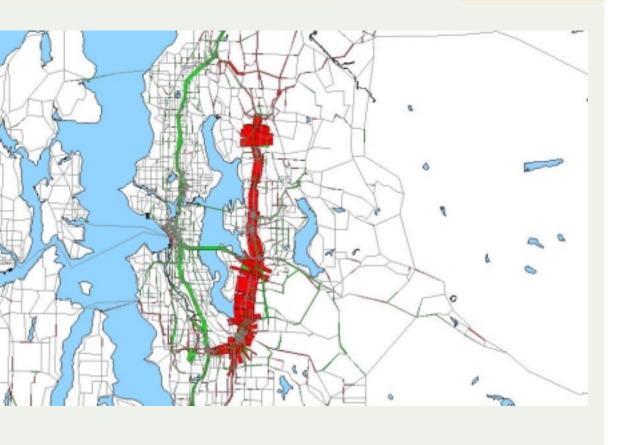
Serves many eastwest trips around Lake Washington





### Changes in Trip Routes with I-405 Improvements

- Accommodates more daily trips
- Reduces volumes on I-5 through Seattle by 18,000 daily trips
- Reduces volumes across Lake Washington
- Reduces volumes on north-south arterials on eastside





#### **Preferred Alternative Selected**

- In 2002 the project's Executive Committee finalized the vision for I-405. This decision was supported by:
  - Cities: Tukwila, Renton, Newcastle, Bellevue, Kirkland, Redmond, Bothell
  - Counties: King, Snohomish
  - Agencies: Sound Transit, Puget Sound Regional Council, WSDOT, WA. Transportation Commission
  - Legislators: Senators Horn & Prentice, Representative Pflug



### Related Program Support

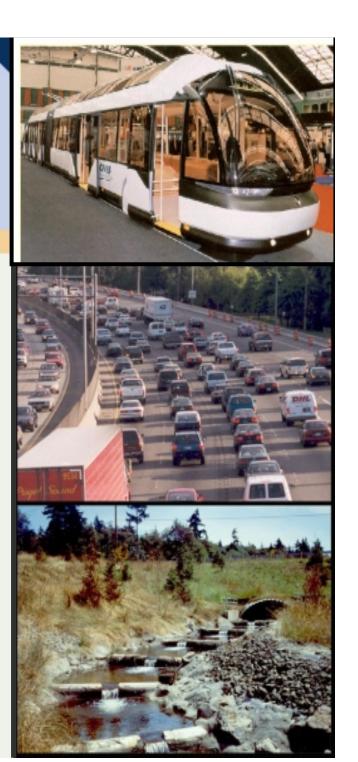
**AAA** Washington **Associated General Contractors Bridle Trails Community** Bellevue Chamber of Comm. Bellevue Downtown Assoc. **Boeing Company Issaquah Chamber of Commerce** Redmond Chamber of Comm. **Renton Chamber of Commerce** Kirkland Chamber of Comm. Northshore Chamber of Commerce Move on 405

"The Boeing Company has been an outspoken advocate of the increased public investment and planning of multi-modal transportation solutions to meet the mobility needs of our operations and for the community at large. We applaud the Department of Transportation's planning efforts within the I-405 corridor..."



### I-405 Master Plan: A Blueprint for the Future

- New Bus Rapid Transit system
- 9 new Transit Centers added
- 50% transit service increase with HOV lane & new direct access ramps
- 5000 new Park and Ride spaces
- 1700 new Vanpools
- 2 new lanes added each direction
- Key chokepoints fixed in Renton, Bellevue, Kirkland, Bothell
- Local arterials improved
- Environmental enhancements



## Transportation Demand Management (TDM)

 Increase the number of vanpools (1700 new vehicles), improve public education, expand employer-based programs, and continue analysis of pricing solutions as part of a regional program.

"The Puget Sound region, which boasts the biggest vanpool operation in the nation, has about 1,250 van pools carrying about 11,000 people a day." Seattle Times 10/28/99





### High Occupancy Vehicles (HOV)

Complete the series of ramps connecting arterials and freeways directly to HOV lanes on I-405. This allows carpools, vanpools and buses to use the HOV lanes without weaving across other traffic.

During the most congested hours the HOV lanes carry 20% of the people in the Kirkland area.



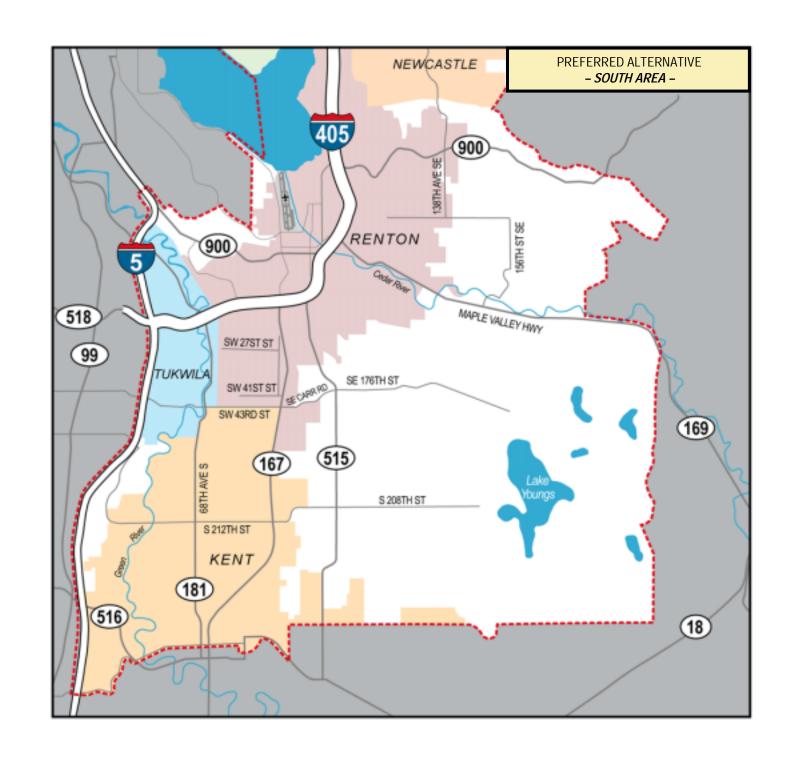


#### Transit/BRT

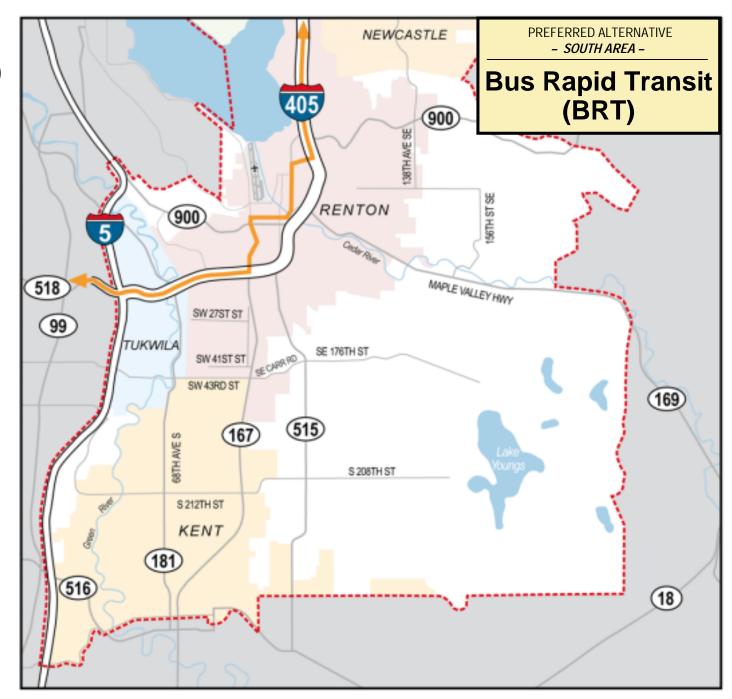
Expand transit service (up to 75%) in the corridor; implement a bus rapid transit (BRT) type service for most north-south transit travel; explore automated high capacity transit (Rail or BRT) options for cross-lake (SR 520 & I-90 Corridor).

Includes
supporting park &
ride lot and
transit station
improvements.

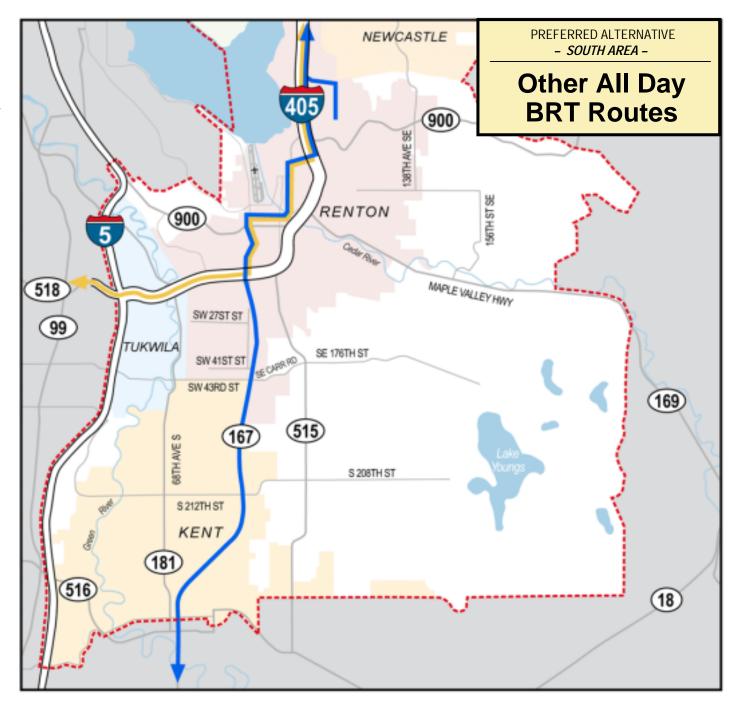




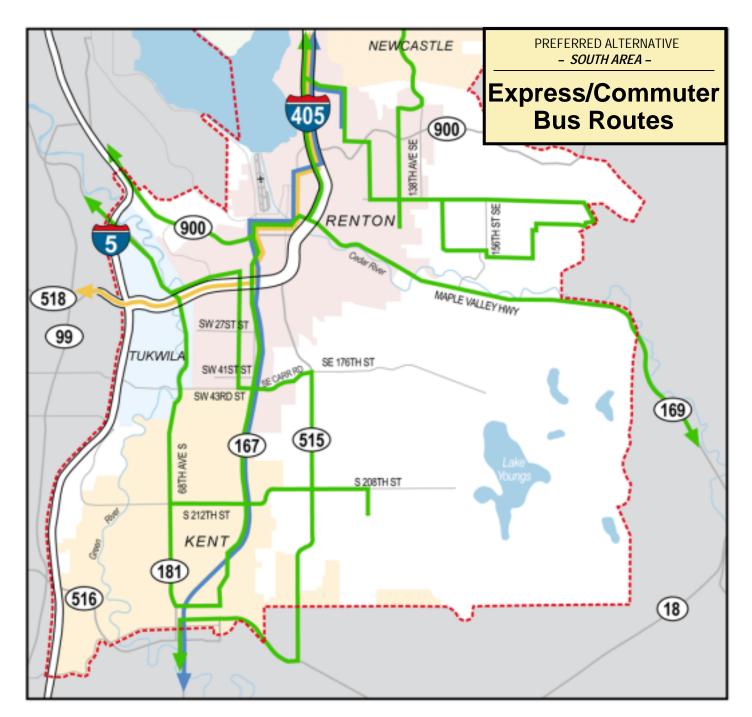
Bus Rapid Transit (BRT)



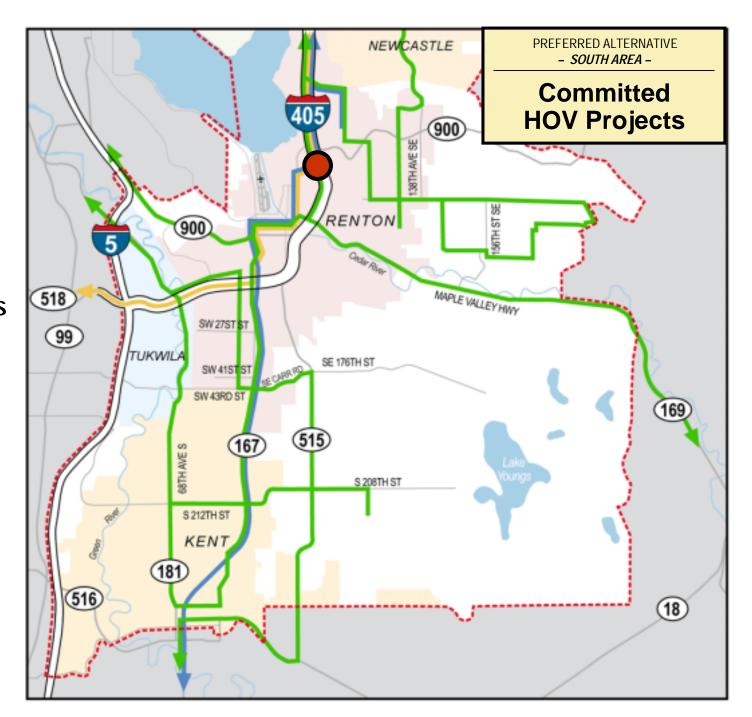
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes



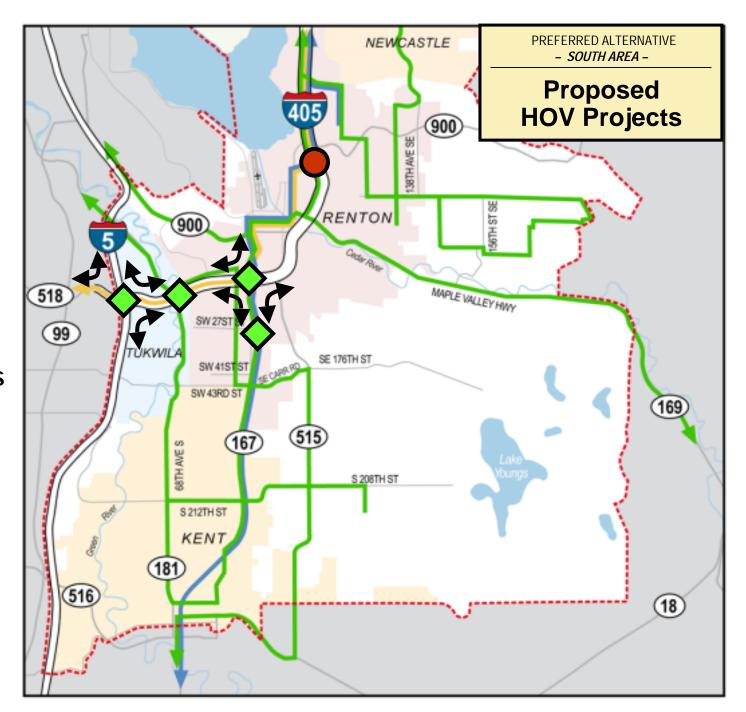
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes
- Express/CommuterBus Routes



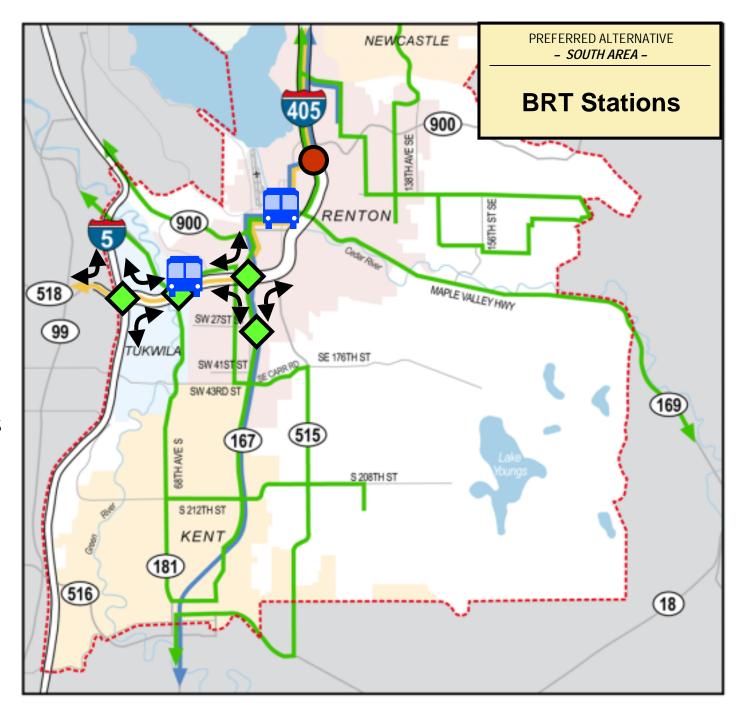
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes
- Express/ Commuter Bus Routes
- Committed HOV Projects



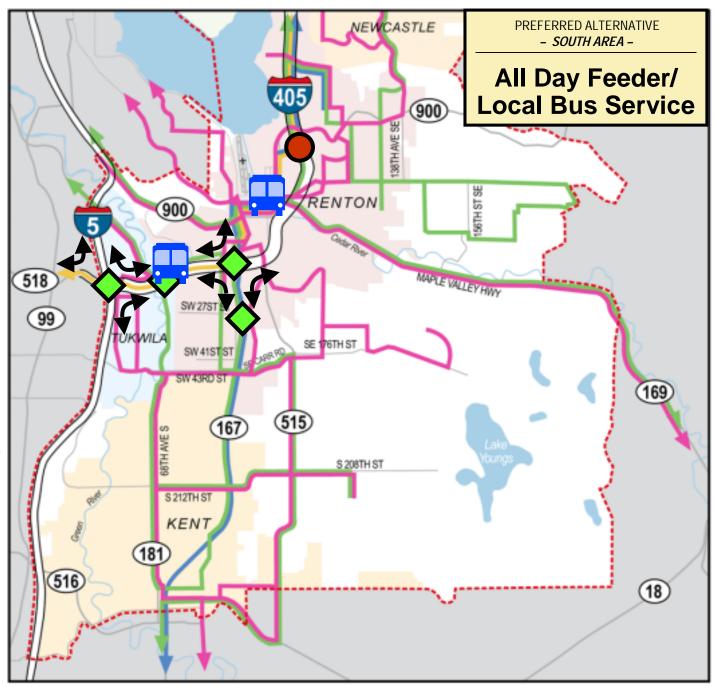
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes
- Express/ Commuter Bus Routes
- Committed HOV Projects
- Proposed HOV Projects



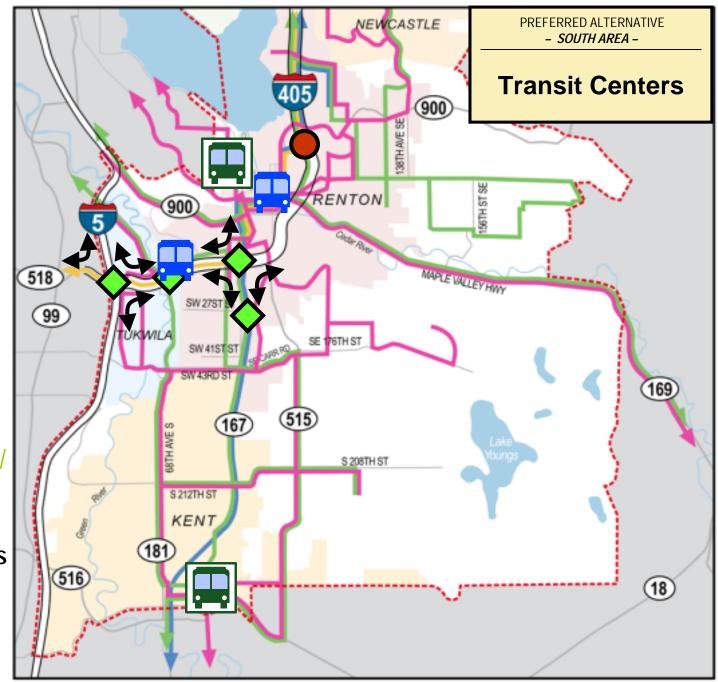
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes
- Express/CommuterBus Routes
- Committed HOV Projects
- Proposed HOV Projects
- BRT Stations



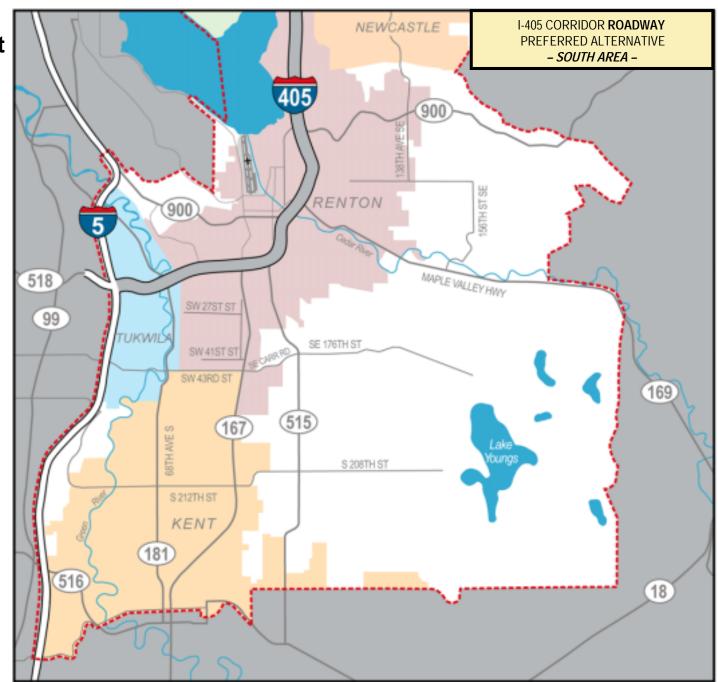
- Bus Rapid Transit (BRT)
- Other All-Day BRT Routes
- Express/CommuterBus Routes
- Committed HOV Projects
- Proposed HOV Projects
- BRT Stations
- All Day Feeder/ Local Bus Service



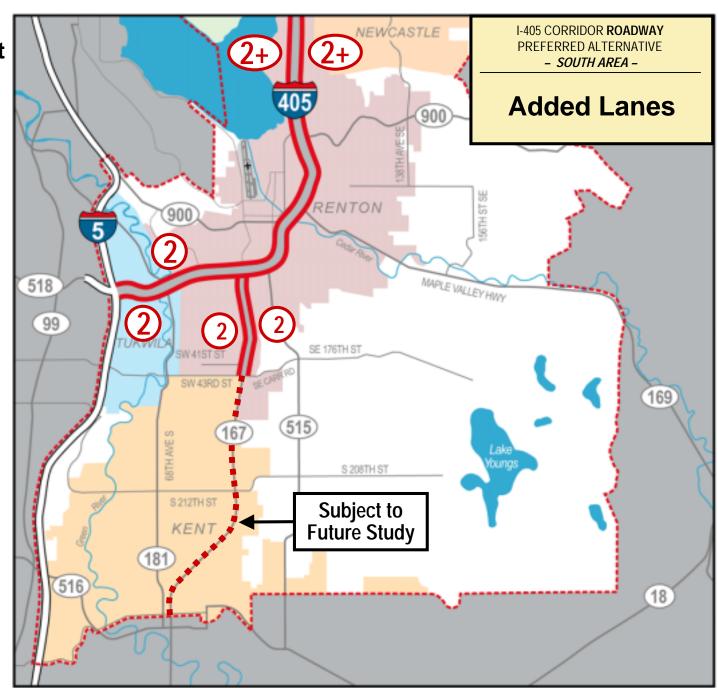
- Bus Rapid Transit (BRT)
- Other All Day BRT Routes
- Express/CommuterBus Routes
- Committed HOV Projects
- Proposed HOV Projects
- BRT Stations
- All Day Feeder/ Local Bus Service
- Transit Centers



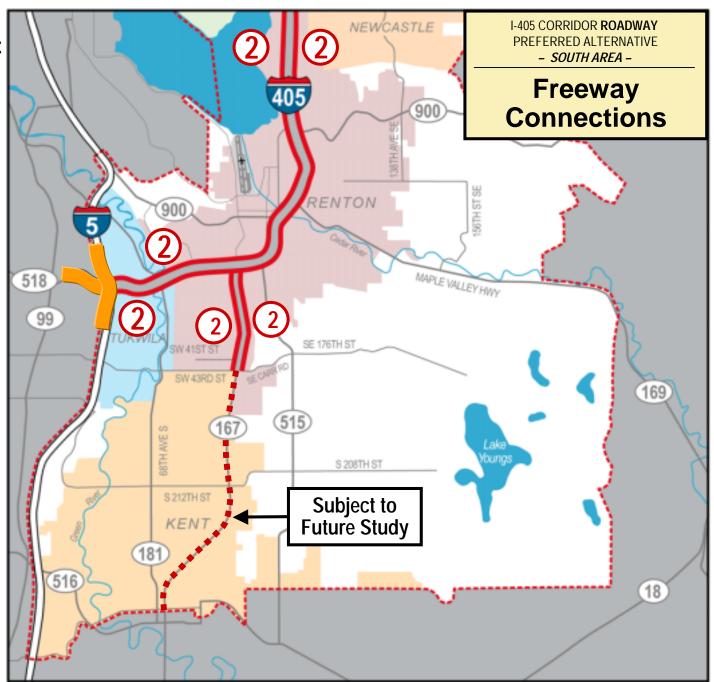
General Roadway & Freight



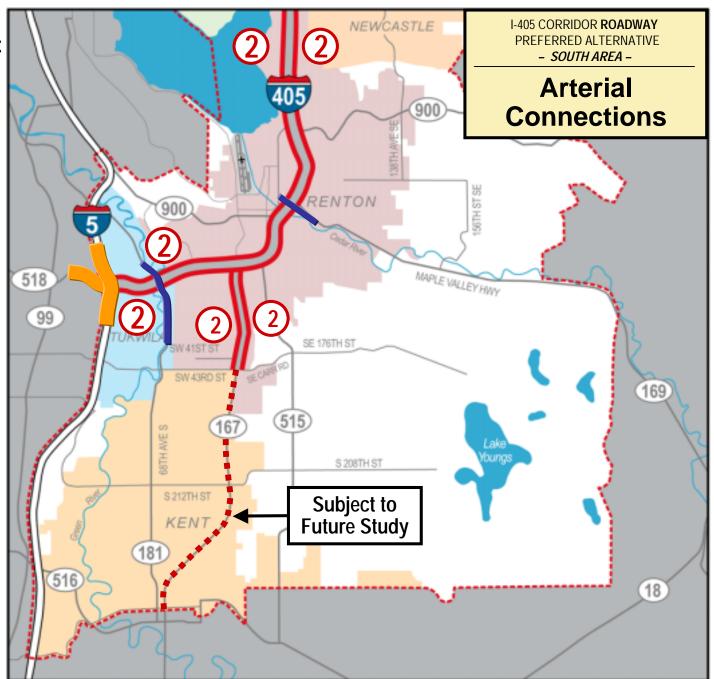
Added Lanes



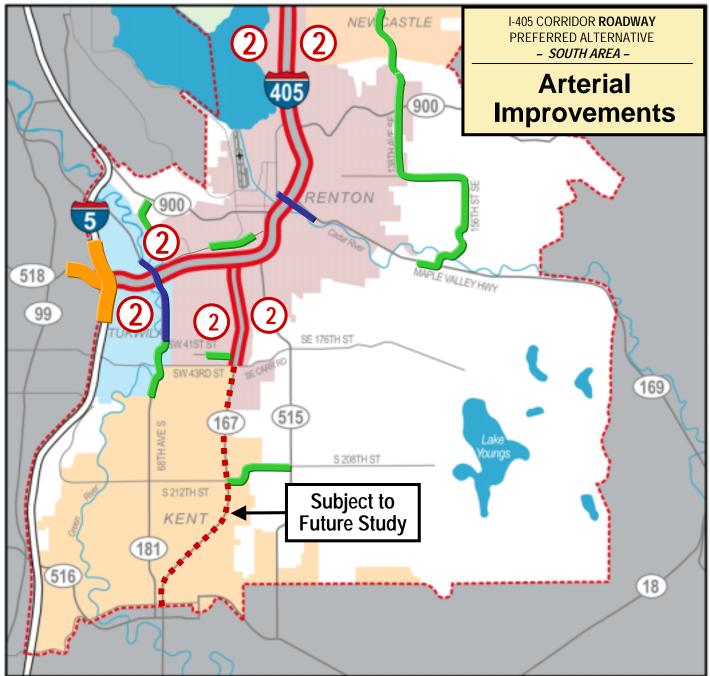
- Added Lanes
- FreewayConnections



- Added Lanes
- Freeway Connections
- Arterial Connections



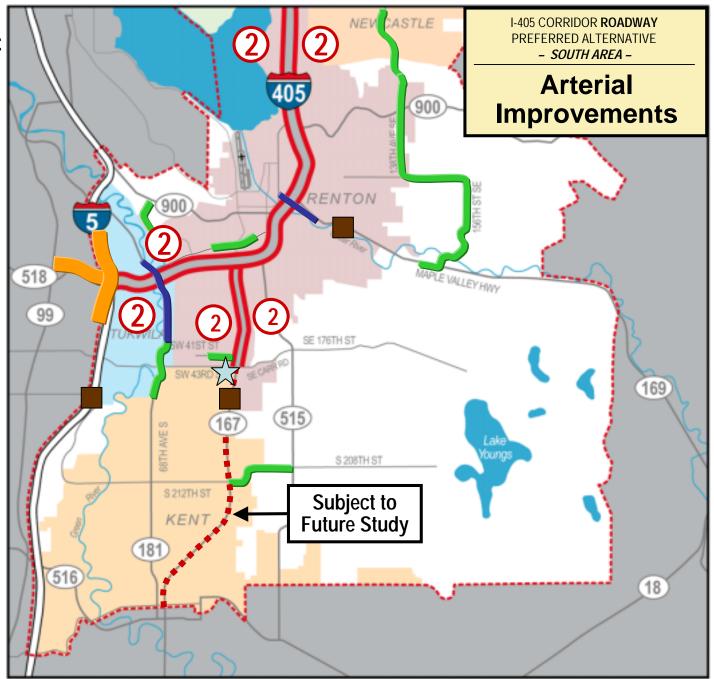
- Added Lanes
- Freeway Connections
- Arterial Connections
- Arterial Improvements



- Added Lanes
- Freeway Connections
- Arterial Connections
- Arterial Improvements

#### **Other Freight**

- VariableMessage
- ☆ Truck Staging



Developed 8/93

### Implementation Principles for I-405

**Worst First** 

**Fulfill the Vision** 

**Build Logical Segments** 

**Early Environmental Action** 

Minimize Risk & Delays

**Minimize Construction Impacts** 

**Modal Balance** 

Take Early Actions





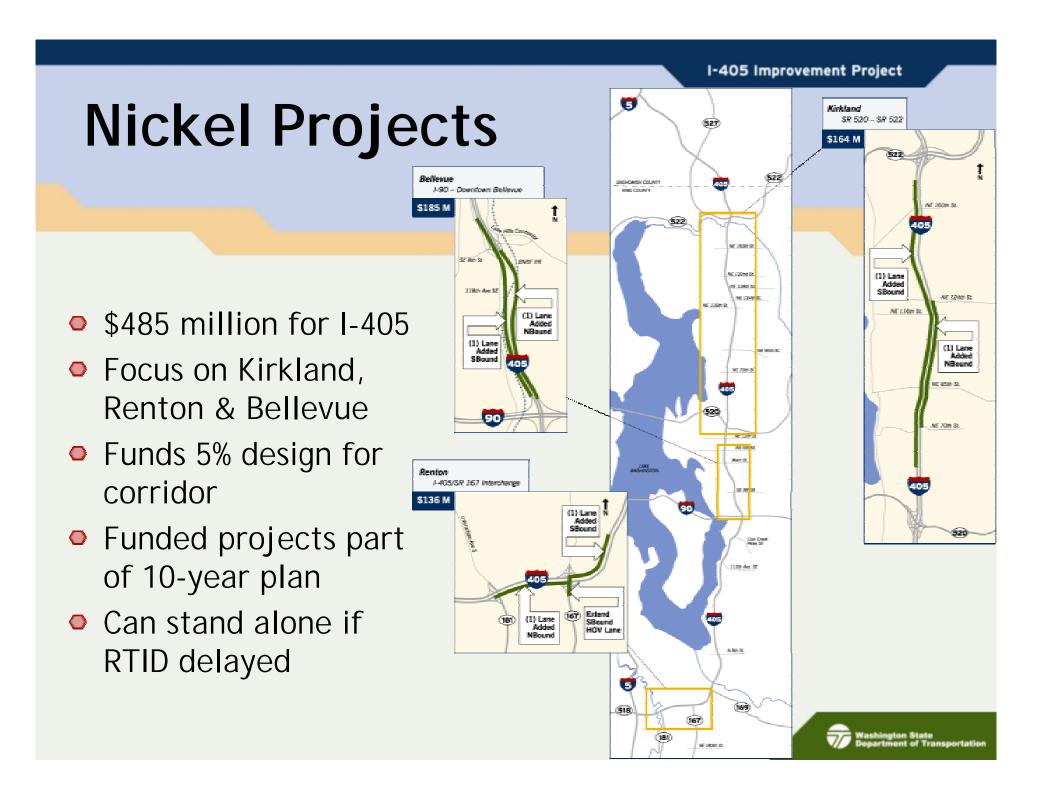
#### It's Your Nickel, Watch it Work!

- Legislature Passed, and Governor Locke signed new Transportation Budget May 19<sup>th</sup>
- Nickel Funding Package ten year program
- 13 years since last gas tax
- Formalizes accountability standards
- Reforms regulations for efficiencies
- Specific projects across Washington State

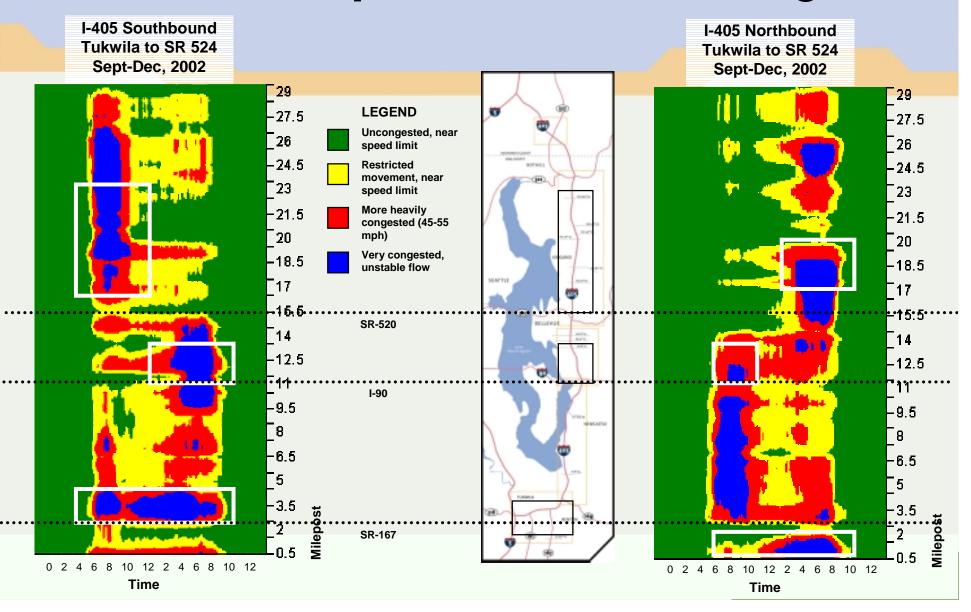


### King County "Nickel Projects"

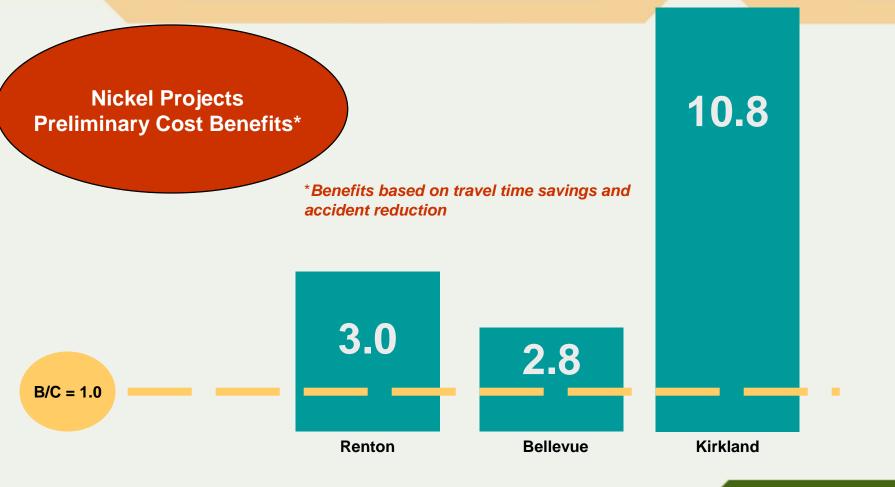
\$485
\$177
\$102
\$56
\$55
\$42
\$40
\$35
\$26
\$16
\$15
\$15
\$13
\$10
\$10
\$8
<b>\$7</b>
\$5



## Traffic Hotspots - Nickel Projects



#### Nickel Projects Performance





# Kirkland Nickel Project

- Extends from SR 522 in Bothell to SR 520 in Bellevue
- Adds one additional SBIane between SR 522 andSR 520
- Adds one additional new NB lane between NE 70<sup>th</sup> Street to NE 124<sup>th</sup> Street



# S. Renton Nickel Project

- Extends from the West Valley Hwy to Maple Valley Hwy in Renton
- One additional NB lane on I-405 from SR 181 to SR 167
- One additional SB lane from SR 169 to SR 167

Renton I-405/SR 167 Interchange

\$136 M





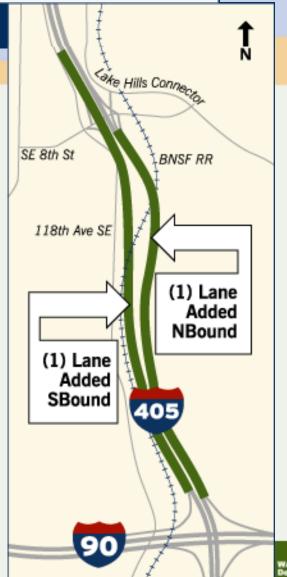
## Bellevue Nickel Project

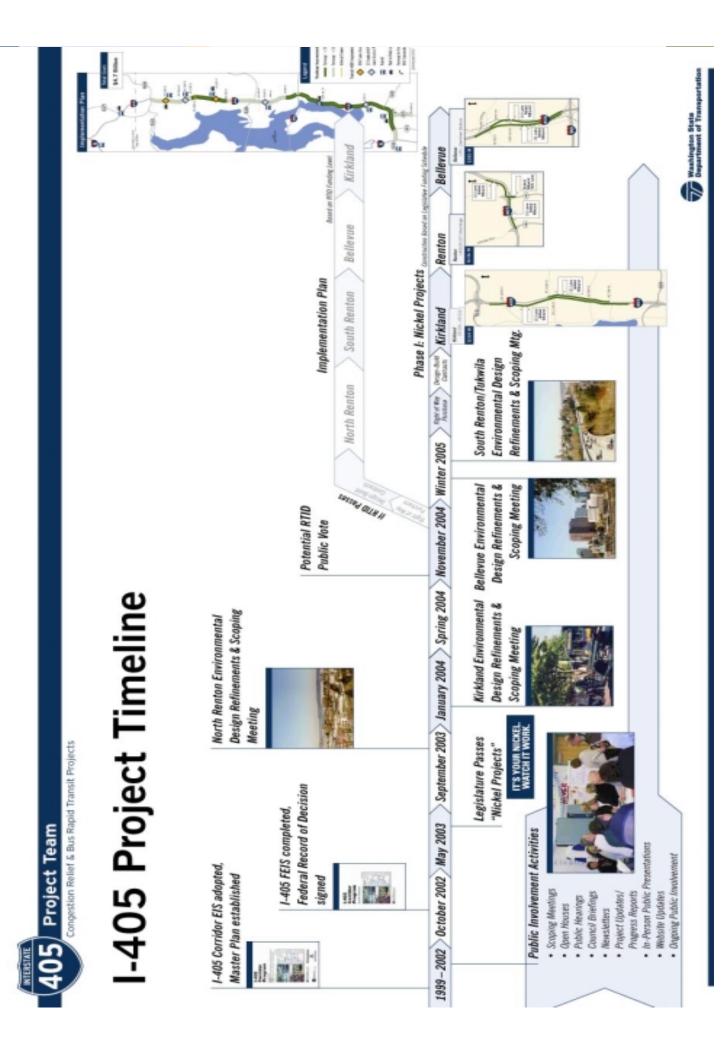
Bellevue

I-90 - Downtown Bellevue

\$185 M

- Extends from SE 8<sup>th</sup> to I 90 in South Bellevue
- One additional NB lane on I-405 from I-90 to SE 8<sup>th</sup>
- One additional SB lane from the NE 4<sup>th</sup> vicinity to I-90
- Improvements to the Wilburton tunnel





I-405 Progress Report

Through February 3, 2004

- 100+ staff people on board
- 100 on-call staff engaged
- Co-Location March 1st
- Nickel environmental process underway
- Nickel designs on schedule



600 – 108<sup>th</sup> Avenue NE Suite 405 Bellevue, WA 98004 425-456-8500



### I-405 Corridor Program

 Address the corridor's worst congestion areas, including freight, transit, and general purpose



2. Enhance the multimodal aspects of I-405 (carpools, vanpools, transit, HOV)



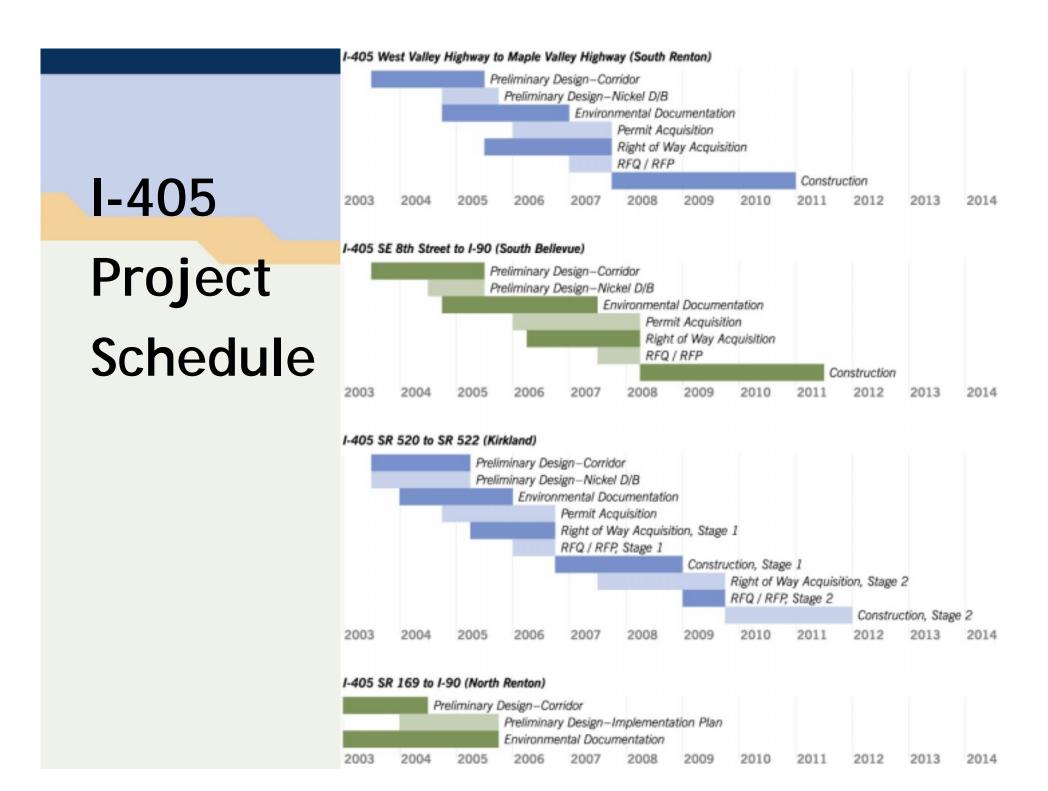
3. Leave the environment better

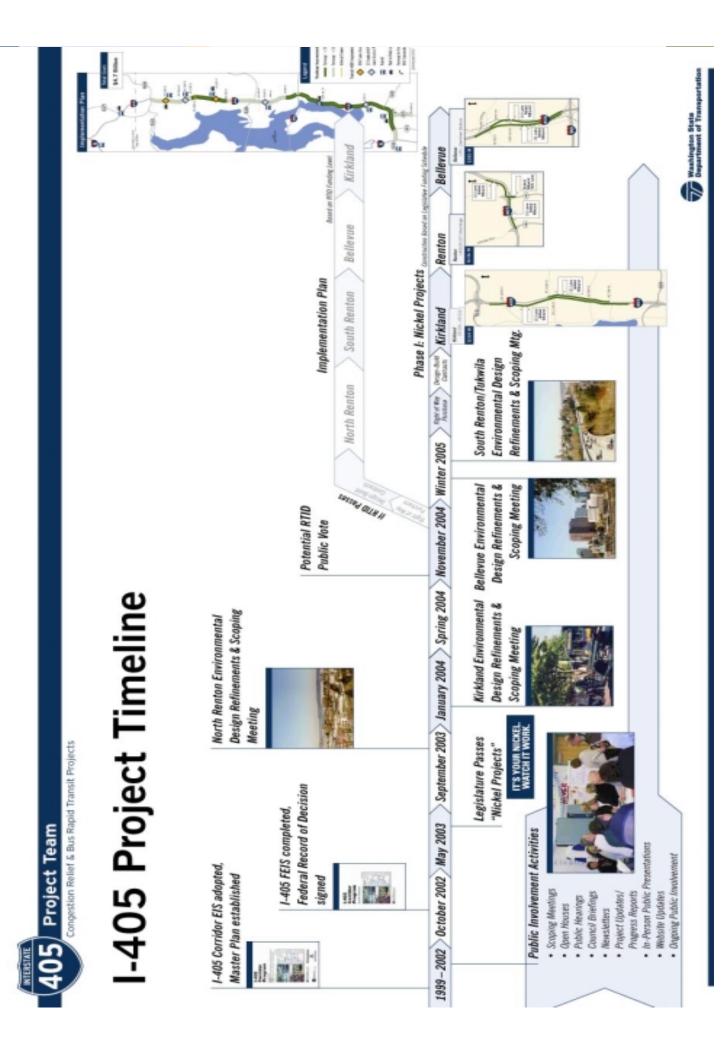


#### For More Information

www.wsdot.wa.gov/projects/I-405







## Design-Build Project

	EIS Eng.	<b>←</b> Acqui		
	Estimate Eng. Report	Design/ROW Acquisition	Utility Relocations	Construction
Conception	2 Years	2.5 Years	1 Year	4 Years

			← Acquire funds	
EIS Eng. Report	Contract Development	Bid Process	Design-Build	
2 Years	2.5 Years	1 Year	4 Years	
TOTAL PROJECT 7.5 YEARS				
	Eng. Report	Eng. Report Development  2 Years  2.5 Years	Eng. Report Development Process  2 Years 2.5 Years 1 Year	



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